

SEQUENCE LISTING

<110> C. Frank Bennett
Lex M. Cowser

<120> ANTISENSE MODULATION OF SHH EXPRESSION

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cagctcgaa gtcatcgatt ccatggcgaa g atg ctg ctg ctg gca aga tgt 172

Met Leu Leu Leu Ala Arg Cys

1 5

ctg ctg cta gtc ctc gtc tcc tcg ctg gta tgc tcg gga ctg gcg 220
Leu Leu Leu Val Leu Val Ser Ser Leu Leu Val Cys Ser Gly Leu Ala
10 15 20

tgc gga ccg ggc agg ggg ttc ggg aag agg agg cac ccc aaa aag ctg 268
Cys Gly Pro Gly Arg Gly Phe Gly Lys Arg Arg His Pro Lys Lys Leu
25 30 35

acc cct tta gcc tac aag cag ttt atc ccc aat gtg gcc gag aag acc Thr Pro Leu Ala Tyr Lys Gln Phe Ile Pro Asn Val Ala Glu Lys Thr 40	45	50	55	316
cta ggc gcc agc gga agg tat gaa ggg aag atc tcc aga aac tcc gag Leu Gly Ala Ser Gly Arg Tyr Glu Gly Lys Ile Ser Arg Asn Ser Glu 60	65	70		364
cga ttt aag gaa ctc acc ccc aat tac aac ccc gac atc ata ttt aag Arg Phe Lys Glu Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys 75	80	85		412
gat gaa gaa aac acc gga gcg gac agg ctg atg act cag agg tgt aag Asp Glu Glu Asn Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys Lys 90	95	100		460
gac aag ttg aac gct ttg gcc atc tcg gtg atg aac cag tgg cca gga Asp Lys Leu Asn Ala Leu Ala Ile Ser Val Met Asn Gln Trp Pro Gly 105	110	115		508
gtg aaa ctg cgg gtg acc gag ggc tgg gac gaa gat ggc cac cac tca Val Lys Leu Arg Val Thr Glu Gly Trp Asp Glu Asp Gly His His Ser 120	125	130	135	556
gag gag tct ctg cac tac gag ggc cgc gca gtg gac atc acc acg tct Glu Glu Ser Leu His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr Ser 140	145	150		604
gac cgc gac cgc agc aag tac ggc atg ctg gcc cgc ctg gcg gtg gag Asp Arg Asp Arg Ser Lys Tyr Gly Met Leu Ala Arg Leu Val Glu 155	160	165		652
gcc ggc ttc gac tgg gtg tac tac gag tcc aag gca cat atc cac tgc Ala Gly Phe Asp Trp Val Tyr Glu Ser Lys Ala His Ile His Cys 170	175	180		700
tcg gtg aaa gca gag aac tcg gtg gcg gcc aaa tcg gga ggc tgc ttc Ser Val Lys Ala Glu Asn Ser Val Ala Ala Lys Ser Gly Gly Cys Phe 185	190	195		748
ccg ggc tcg gcc acg gtg cac ctg gag cag ggc acc aag ctg gtg Pro Gly Ser Ala Thr Val His Leu Glu Gln Gly Thr Lys Leu Val 200	205	210	215	796
aag gac ctg agc ccc ggg gac cgc gtg ctg gcg gac gac cag ggc Lys Asp Leu Ser Pro Gly Asp Arg Val Leu Ala Ala Asp Asp Gln Gly 220	225	230		844
cgg ctg ctc tac agc gac ttc ctc act ttc ctg gac cgc gac gac ggc Arg Leu Leu Tyr Ser Asp Phe Leu Thr Phe Leu Asp Arg Asp Asp Gly 235	240	245		892
gcc aag aag gtc ttc tac gtg atc gag acg cgg gag ccg cgc gag cgc Ala Lys Lys Val Phe Tyr Val Ile Glu Thr Arg Glu Pro Arg Glu Arg 250	255	260		940
ctg ctg ctc acc gcc gcg cac ctg ctc ttt gtg gcg ccg cac aac gac Leu Leu Leu Thr Ala Ala His Leu Leu Phe Val Ala Pro His Asn Asp				988

265	270	275	
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ggc cag cgc gtg tac gtg gtg gcc gag cgt gac ggg gac cgc cgg ctc Gly Gln Arg Val Tyr Val Val Ala Glu Arg Asp Gly Asp Arg Arg Leu 315 320 325			1132
ctg ccc gcc gct gtg cac agc gtg acc cta agc gag gag gcc gcg ggc Leu Pro Ala Ala Val His Ser Val Thr Leu Ser Glu Glu Ala Ala Gly 330 335 340			1180
gcc tac gcg ccg ctc acg gcc cag ggc acc att ctc atc aac cgg gtg Ala Tyr Ala Pro Leu Thr Ala Gln Gly Thr Ile Leu Ile Asn Arg Val 345 350 355			1228
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gcc ttc gcg ccc ttc cgc ctg gcg cac gcg ctc ctg gct gca ctg gcg Ala Phe Ala Pro Phe Arg Leu Ala His Ala Leu Leu Ala Ala Leu Ala 380 385 390			1324
ccc gcg cgc acg gac cgc ggc ggg gac agc ggc ggc ggg gac cgc ggg Pro Ala Arg Thr Asp Arg Gly Gly Asp Ser Gly Gly Asp Arg Gly 395 400 405			1372
ggc ggc ggc aga gta gcc cta acc gct cca ggt gct gcc gac gct Gly Gly Arg Val Ala Leu Thr Ala Pro Gly Ala Ala Asp Ala 410 415 420			1420
ccg ggt gcg ggg gcc acc gcg ggc atc cac tgg tac tcg cag ctg ctc Pro Gly Ala Gly Ala Thr Ala Gly Ile His Trp Tyr Ser Gln Leu Leu 425 430 435			1468
tac caa ata ggc acc tgg ctc ctg gac agc gag gcc ctg cac ccg ctg Tyr Gln Ile Gly Thr Trp Leu Leu Asp Ser Glu Ala Leu His Pro Leu 440 445 450 455			1516
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